

Title (en)

Toilet with a sterilizing water dispensing apparatus

Title (de)

Toilette mit einer Sprühvorrichtung für sterilisiertes Wasser

Title (fr)

WC avec un appareil de distribution d'eau de stérilisation

Publication

**EP 2241687 A1 20101020 (EN)**

Application

**EP 09171575 A 20090929**

Priority

- KR 20090027612 A 20090331
- KR 20090083472 A 20090904

Abstract (en)

A sterilizing water dispensing apparatus (100), and a bidet and toilet seat having the same are disclosed. The sterilizing water dispensing apparatus (100) includes: an inlet to which sterilizing water is introduced; a cylindrical vortex production chamber that generates a vortex in the sterilizing water introduced through the inlet; and a dispensing hole disposed at the center of the bottom of the vortex production chamber and dispensing the vortex-produced sterilizing water in the vortex production chamber to an inner wall of the toilet. Because sterilizing water is dispensed in the form of fine particles with a relatively large surface area, the sterilizing water is brought into contact with a larger area of an inner wall of a toilet, so a sterilizing effect can be enhanced with a small quantity of sterilizing water.

IPC 8 full level

**E03D 11/08** (2006.01); **B05B 1/34** (2006.01)

CPC (source: EP US)

**B05B 1/3436** (2013.01 - EP US); **E03D 11/08** (2013.01 - EP US); **E03D 2201/40** (2013.01 - EP US)

Citation (applicant)

- US 2001022006 A1 20010920 - TOMITA TADASHI [JP], et al
- GB 1562052 A 19800305 - BOSCHI A, et al
- EP 0000688 A2 19790207 - WERDING WINFRIED J

Citation (search report)

- [X] EP 0000688 A2 19790207 - WERDING WINFRIED J
- [XY] US 2001022006 A1 20010920 - TOMITA TADASHI [JP], et al
- [Y] GB 1562052 A 19800305 - BOSCHI A, et al
- [X] DE 815628 C 19511004 - KLEIN HANS-ULRICH
- [A] WO 03102315 A1 20031211 - GEBERIT TECHNIK AG [CH], et al

Cited by

CN106460379A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

**EP 2241687 A1 20101020**; **EP 2241687 B1 20150128**; AU 2009222540 A1 20101014; AU 2009222540 B2 20120823; CN 101851949 A 20101006; JP 2010242486 A 20101028; US 2010242164 A1 20100930

DOCDB simple family (application)

**EP 09171575 A 20090929**; AU 2009222540 A 20090930; CN 200910204042 A 20090930; JP 2009228346 A 20090930; US 56820809 A 20090928